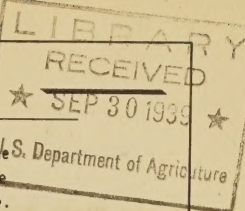


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No. 3

FOOD RESEARCH DIVISION

Dr. F. C. Blanck has resigned as Chief of the Food Research Division, effective September 20, 1939, to accept employment with the H. J. Heinz Co. of Pittsburgh, Pa. Except for periods in which he was Commissioner of Health of the State of Maryland and Director of the Baltimore City Health Department Laboratories, he has been in this Department, either in the Bureau of Plant Industry or the old Bureau of Chemistry and its successors, for a total of over twenty years. He has headed the Food Research Division since 1927 when the Bureau of Chemistry and Soils was organized.

Members of the Food Research Division who attended the American Chemical Society meeting in Boston are J. A. LeClerc, M. B. Matlack, H. H. Mottern, H. W. von Loesecke, M. K. Veldhuis, and Miss Ruth G. Capen. Papers were presented by Dr. LeClerc on "The Composition and Food Value of Wild Rice"; Dr. Matlack on "An Esterase from Muscular Tissue", and Dr. Mottern on "Enzymic Preparation of d-Galacturonic Acid".

Harlow H. Hall of the Food Research Division left about the first of September to spend three months at the Laurel Starch Plant, Laurel, Miss., where he will cooperate in studies on the bacteriology of starch making.

Among recent visitors to the Food Research Division were Dr. F. C. Blanck and Mr. Mayer of the H. J. Heinz Company, Pittsburgh, Pa., and Mr. Herbert C. Bailey of the Exchange Orange Products Corporation, Ontario, Calif.

Numerous requests from manufacturing pharmacists have been received for permission to manufacture phenothiazine and its oxidative derivatives. In reply to these requests licenses have been sent to the inquirers to manufacture the product under U. S. Patent No. 2,085,794.

Dr. H. H. Mottern of the Pullman, Washington, Station arrived in Washington on August 17, for conferences with officials in the Division and Bureau regarding the program of his laboratory.

Dr. Harry E. Goresline recently returned from a two months' trip to Europe during which he visited Hungary, Germany, Italy, Greece and France. Dr. Goresline was appointed chairman of the American delegation

to the Sixth International Technical and Chemical Congress of Agricultural Industries at Budapest, at which meeting he presented a paper on "The Preparation and Bacteriological Examination of Fruit Juices." He advises that his travels throughout were most enjoyable and enlightening with the exception of the last few days, when he suddenly found himself faced with the serious problem of transportation back to this country. After having boarded the boat at Naples and proceeding as far as Genoa he was required to leave the ship and advised to proceed to Paris with the possibility that he might arrange for passage there. After a number of days, passage was finally obtained on the Ile de France in a stateroom where he slept on the floor with about fifty fellow passengers. He arrived at New York September 9th

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Mrs. Helen F. Smart, E. A. Beavens and John L. Etchells represented the Food Research Division at the Third International Congress for Microbiology held in New York City, September 2-9, 1939. Mr. Beavens was on the program for a paper entitled "The Preservation of Fruit Juices." Mr. Etchells presented a paper entitled "Cucumber Pickle Fermentation under Southern Conditions" by Harry E. Goresline who could not be present due to the fact that he was unable to return from Europe in time to attend the meeting.

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H. W. von Loesecke, head of the U. S. Citrus Products Station at Winter Haven, Fla., spent a day in the Bureau recently discussing plans for the construction of a new building at that station.

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Senor William Rossy, Chemical Engineer, Chief of the Division of Agricultural Industry, Department of Agriculture and Commerce, Rio Piedras, Puerto Rico, called on Mr. E. K. Nelson recently to discuss work on vanilla.

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MECHANICAL PROCESSING OF FARM PRODUCTS RESEARCH

Cotton Ginning Investigations:

Special lots of seed cottons from Georgia, Arkansas, and Mississippi have been handled during the past few weeks in the regular ginning program research tests.

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Chas. A. Bennett and T. L. Baggette made a trip to Cartersville, Ga., on August 9 to supervise a pioneer cotton conditioning installation along the latest modernized and simplified lines developed by the Cotton Ginning Laboratories.

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Cooperative tests by Waldo H. Kliever of this Bureau and Arvid J. Johnson of the Agricultural Marketing Service were made at a new cotton gin located at Webb, Miss., where a special pure seed handling system for servicing seed scales and seed storage has been installed by Whitney Smith.

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Numerous forms of the laboratory-type wye systems for feeding cotton driers have been installed at cotton gins this season, and instrument readings are being made by members of the Laboratory staff at a number of nearby gins in the Mississippi Delta.

On Wednesday, August 30, officials of the Cen-Tennial Cotton Gin Company accompanied Senor Prada, President of the Brazilian Cotton Ginners' Association, to the Cotton Ginning Laboratories on an inspection visit. Senor Prada, who operates five large Brazilian cotton gins with high-density, 400 pound, bale presses, is making a trip throughout the cotton regions of the United States to observe North American methods of handling cotton.

An informal cooperative project involving special studies at a commercial gin has been undertaken by the Cotton Ginning Laboratories and the Burdette Cooperative Gin Association, which has set up a government low-tower drier and a large-sized house furnace in a special draw-through form of cotton handling. The house furnace used in these studies has been surrounded with a brick wall and screened for fireproofing. The furnace represents an ordinary investment of approximately \$200 and when fired with a small oil burner showed resulting temperatures as high as 132 degrees F. when handling 5,400 cubic feet of air per minute. If this method of installation works out satisfactorily during the entire season it will make available to small cotton gins a source of heat that is relatively inexpensive in both first as well as operating cost.

Cotton Packing Investigations:

On August 22 a specimen high-density pressure bale weighing approximately 500 pounds was tied out from the Brazilian-type experimental press as an observation regarding the maximum capacity of this unit. The hydraulic pressure required to operate the press rose to a peak of 3,300 pounds per square inch, and before the bale was released from the press the cotton was calculated to obtain a density of 47 pounds per cubic foot which was decreased materially when the bale was released from the pressure.

On Thursday, August 31, the experimental, round-bale press began operation in a series of research tests with very satisfactory results, but significant alterations were necessary in the Brazilian-type, square-bale press before it could be put into continuous service.

On September 4 Capt. Ralph Stanley Sennitt, Technical Advisor of the Belgium-Congo Cotton Company, in company with Maurice V. Pilette, chief of the purchasing department, and Arthur A. Brixhe, fiber technologist, both from Brussels, Belgium, arrived at the Cotton Ginning and packing Laboratories for a seven-day visit.

S. H. McCrory visited the U. S. Cotton Ginning Laboratories September 6 and inspected the season's mechanical layouts and program plans. Mr. McCrory also conferred with the various members of the staff on administrative and personnel matters and acted as host on the part of the Bureau in extending courtesies to the Belgium-Congo visitors.

Dr. John W. Wright, representing the Agricultural Marketing Service in the cotton packing program, was present at the Laboratories between September 5 and September 9 and conferred with the several groups of workers engaged in the cotton packing and cotton sampling activities.

A direct gas-fired heater of new design has been under test in the cotton packing investigations where it has been used in drying certain lots of cotton that were to undergo pressing. It was generally noted that more hydraulic pressure was required to compress the dried bales than was necessary for those ginned green and damp.

Densities of one cubic foot specimen bales ranging in stages of 11, 22, 33, and 44 pounds per cubic foot have been satisfactorily obtained in the pilot press, and this scientific instrument is giving promise of much valuable flexibility in future studies. Hydraulic connections have been made to the pilot press from both low and high pressure pumps so that a wide variety of pressures may be obtained by the mere manipulation of valves.

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FIBER-FLAX INVESTIGATIONS

S. H. McCrory reviewed work under way by W. M. Hurst on the Fiber Flax machinery project August 14-16 and visited each of the three farm cooperating flax mills in Oregon.

From July 26 to August 23 an experimental deseeder installed at the Canby flax plant handled about 335 tons of straw. According to present indications the machine will be used during the remainder of the 1939 season. A deseeder introduced by the Bureau from Belgium is also performing in a satisfactory manner at the Mt. Angel Plant.

The fiber flax pulling (harvesting) season has ended and the two pullers under observation have been returned to the shop. The Soenens puller, imported from Belgium, gave promising results and pulled about 90 acres of flax. However, the Belgian machine is not constructed to stand the speed and rough usage to which farm machinery is subjected in this country and will need some alterations.

Rubber-covered pulling rollers installed on the Vessot puller (type used locally) increased the effectiveness of the machine in pulling the plants out of the ground, but trouble was experienced with the elevating and conveying mechanism. This machine pulled about 20 acres.

C. G. Worthington, Textile School, Georgia School of Technology, Atlanta, Ga. recently spent several days in the Willamette Valley studying flax processing methods. Mr. Worthington has done considerable work on mechanical decortication and chemical degumming of fiber flax.

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REGIONAL RESEARCH LABORATORIES

H. T. Herrick and Dr. P. A. Wells visited the State agricultural experiment stations in Maine, New Hampshire, Vermont, and Massachusetts during the week of August 20.

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Dr. David F. Smith and P. Burke Jacobs are now traveling in the middle west and far west in connection with the alcohol project of the Northern Laboratory.

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Dr. E. C. Lathrop and W. B. Van Arsdel are now in the middle west in connection with the farm wastes project.

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The following men were present at the Third International Congress for Microbiology in New York City, September 4-8: Dr. O. E. May, Dr. P. A. Wells, Dr. T. L. Swenson, and Dr. Hans Lineweaver.

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The American Chemical Society meeting, held at Boston September 11 to 15, was attended by the following: H. T. Herrick, Dr. G. E. Hilbert, Dr. O. E. May, D.F.J. Lynch, Dr. P. A. Wells, Dr. T. L. Swenson, M. J. Goss, P. R. Dawson, Dr. H. D. Lightbody, Dr. D. F. Smith, Dr. Lee T. Smith, and Dr. Kyle Ward, Jr.

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Dates for the cornerstone layings for three of the four Regional Research Laboratories and principal speakers for the ceremonies have been announced as follows:

Peoria, Illinois - October 18 - Secretary Wallace
Wyndmoor, Pennsylvania - October 20 - Under Secretary
Wilson and Senator Joe Guffey
Albany, California - October 27 - Secretary Wallace

The date for the cornerstone laying at New Orleans will probably be some time in December. Senator Bilbo will be the principal speaker on that occasion.

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INDUSTRIAL-FARM PRODUCTS RESEARCH

C. E. Senseman, Acting Chief and Dr. Max Phillips attended the American Chemical Society meeting at Boston. Dr. Phillips presented three papers there.

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Messrs. Katsuya Aiko and Yoshito Inoue, delegates of the Manchoukuo Government to the 16th International Congress of Agriculture, called on Mr. Senseman on August 31 to obtain publications and information on the industrial utilization of farm products and by-products.

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Messrs. Geo. E. Ward and L. B. Lockwood attended the Third International Congress for Microbiology, in New York City, September 4-8. Mr. Ward delivered a paper on "Factors Influencing Submerged Oxidative Fermentations", and Dr. Lockwood read a paper entitled "Rhizopus oryzae:

Spore Germination, Early Growth and Fermentation".

Dr. James McLaren, attended the meeting of the Electrochemical Society, in New York City, September 10-13.

Daniel Swern attended the American Chemical Society meeting at Boston, and delivered a paper before the Division of Organic Chemistry, the subject being "Action of Lead Tetraacetate upon Hydroxylated Oils, Fats, Fatty Acids, and Related Compounds". The paper was by J. T. Scanlan and Mr. Swern.

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HIDE AND LEATHER INVESTIGATIONS

Jerome S. Rogers returned September 3 from a three weeks trip in Texas and New Mexico where he visited various points in company with Mr. G. A. Russell of the Bureau of Plant Industry. Mr. Rogers helped to supervise the harvesting of experimental canaigre plantings, planting of new experimental plots, and shipping of samples of the harvested roots to Washington for use in laboratory studies for the development of canaigre as a possible commercial source of tannin.

* * *

PROTEIN AND NUTRITION RESEARCH

Dr. Lawrence F. Martin attended the Third International Congress for Microbiology, held in New York City, September 2 to 9, 1939. Dr. Martin presented a paper on the "Breakdown of Tobacco Mosaic Virus Protein."

* * *

NAVAL STORES RESEARCH

C. F. Speh visited the plant of Taylor, Lowenstein and Company, Mobile, Ala. on August 30 and 31, to study the operation of the turpentine still recently erected in accordance with Bureau plans and specifications.

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Dr. E. E. Fleck and Dr. T. C. Chadwick attended the meetings of the American Chemical Society in Boston during the week of September 11. Dr. Fleck presented a paper entitled: "Lactonization of Dihydro-1-Abietic and Dihydro-1-Pimaric Acids." Dr. Chadwick presented a paper entitled: "Composition of the Non-Pinene Portion of American Gum-Turpentine."

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Papers for Outside Publication

Rosin Straining (G.P. Shingler and E. L. Patton) ACE-1, Aug. 4, 1939.

Grades and Yields of Rosin and Turpentine from Crude Gum.

(A.R. Shirley) ACE-2, August 26, 1939.

An Experimental Turpentine Still (E. L. Patton) ACE-5, Sept. 6, 1939.

* * *

CHEMICAL ENGINEERING RESEARCH

Dr. David J. Price spent the week of August 28 at Pennsylvania State College where he participated in the program of the Pennsylvania State Firemen's Conference. He presented addresses on the following subjects during the course of the conference:

- How Fires Start and How they Burn.
- Some Special Explosion and Fire Hazards in Pennsylvania Communities.
- Explosion and Fire Prevention Research as Related to the Fire Service.

More than 200 firemen were in attendance at these conferences, representing various sections of the State. While this was the first firemen's training conference to be held in Pennsylvania, the school was very successfully conducted and will be held each year.

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Dr. Price, accompanied by Chief Ross B. Davis of the Philadelphia Fire Department, looked over the work being done on the Eastern Regional Laboratory at Wyndmoor, Pa., where they conferred on fire prevention and control matters. Dr. Price also conferred with other officials of the Philadelphia Fire Department with reference to plans and programs for dust explosion and fire prevention. He had a number of talks with members of the Eastern Regional Laboratory staff.

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At the request of the Federal Fire Council, Byron J. Culp made a survey of fire department facilities with particular reference to the protection they afford government buildings and property in the District of Columbia. In this connection he prepared two maps showing movements of fire apparatus in response to alarms in various parts of the city.

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INVESTIGATIONS OF ALLERGENS

Dr. J. R. Spies attended the meetings of the American Chemical Society at Boston from September 11-15. On Friday, September 15, y he presented a report entitled "The Solubility Behavior of an Allergenic Protein Picrate from Cottonseed".

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FARM STRUCTURES RESEARCH

C. F. Kelly recently visited the stations at Hays, Kansas, and Fargo, N. Dak., where studies of wheat storage are being conducted.

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J. R. McCalmont attended the annual meeting of the North Atlantic Section of the American Society of Agricultural Engineers at Farmingdale, N.Y. He acted as chairman at the round table discussion of silo construction.

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Dr. H. J. Barre is assisting with the inspection at the factories of bins purchased by the Consumers Credit Corporation for storage of shelled corn.

* * *

FERTILIZER RESEARCH

By invitation Dr. O. R. Wulf gave an extemporaneous talk on "The Ozone of the Atmosphere below 25 Kilometers" during a joint discussion on the subject of Upper Atmosphere Physics at the meeting of the Terrestrial Magnetism and Electricity Division of the International Union of Geodesy and Geophysics Association held at Washington, September 4 - 15, 1939.

Dr. C. A. Ludwig and Dr. F. E. Allison attended the meeting of the Third Commission of the International Society of Soil Science held at New Brunswick, N.J., August 30-31. Dr. Allison presented a paper on the subject of "Respiration Rates of Rhizobium; their estimation and significance."

Dr. F. E. Allison, and C. K. Horner attended the Third International Congress for Microbiologists held in New York City, September 2 - 8, 1939. By request a talk on the subject of "The Growth Factor Problem in Rhizobium" was given extemporaneously by Dr. Allison at this Congress.

The following papers by members of the staff of this Division were presented at the meetings of the American Chemical Society held at Boston, Mass., September 4 to 15.

Some European Impressions Relating to Fertilizers, by Dr. C. H. Kunsman.

Qualitative Spectroscopic Analyses of Important Trace Elements in Mixed Fertilizers, Dr. C. H. Kunsman.

The Granulation of Fertilizers by the Rotary Drying Method, by Dr. Wm. H. Ross.

The Effect of Moisture on the Caking of Fertilizers, by J. R. Adams.

Magnesium Oxide as a Possible Ingredient of Mixed Fertilizers, by Dr. C. W. Whittaker.

Composition of the Two Phase Carbon Dioxide-Water System at Various Temperatures between 18 and 76° C. and at Pressures to 700 Atmospheres, by Dr. R. Wiebe, before the Physical and Inorganic Section of the meetings.

The Theory of the van der Waals Absorption of Gases, by Dr. Stephen Brunauer, before the Physical and Inorganic Section of the Society.

Miss Katharine Love also attended the meetings to hear papers and discussions on catalysis and related fields.

Mrs. Mildred Sherman attended the second meeting of the Division of Micro-Chemistry to participate in the discussions of the new methods in this rapidly growing field.

* * *

RURAL ELECTRIFICATION RESEARCH

Harry L. Garver attended the annual meeting of the North Atlantic section of the American Society of Agricultural Engineers at Farmingdale, N.Y., where he read a paper on Rural Electrification Research. The paper reported some of the findings of the men who made a survey of 37 State Experiment Stations to get information on research in the uses of electricity in agriculture.

John Edwin Murray of the University of Nebraska and John W. Weaver of Virginia Polytechnic Institute were recently appointed agents to work on rural electrification research, replacing Robert A. Sanderson and Ralph J. Blair who are no longer associated with the institutions named.

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MECHANICAL FARM EQUIPMENT RESEARCH

R. B. Gray attended the North Atlantic Section of the A.S.A.E. at Farmingdale, L. I., during the period September 12 to 15 when a full program of highly interesting papers in the fields of Farm Mechanical Equipment, Rural Electrification, Structures, and Soil Conservation were read. Of special note in the field of mechanical equipment was the paper on recent developments in agricultural machinery in which was discussed the five types of one-plow tractors recently introduced.

On a recent trip through the Southeastern states G. A. Cumings found that the approved side-placement method of fertilizer application has been adopted by a large number of growers as indicated by the sales of improved machines. One of the obstacles to more general adoption of the improved method in the South is the lack of suitable one-horse walking type distributing machines which are, at present, most generally used. A new fertilizer depositor attached to the ordinary machine has not proved to be entirely satisfactory. It is evident that consideration must be given to the general design of this particular type of machine as well as to the fertilizer depositing device for satisfactory performance under prevailing farm practices.

W. H. Redit left Washington on September 13 to supervise the engineering phases of a cooperative fertilizer-placement experiment on strawberries at Atkinson, N. C. The Bureau has mounted special fertilizer equipment on a pivoted-wheel cultivator for this experiment in which the plants will be cut away at each side thus leaving an undisturbed strip about 15 inches wide.

Recommendations and pertinent data bearing on standards of utility and value in the purchase of agricultural implements and machinery have been prepared by W. R. Humphries in connection with the Farm Security Administration. The work is to serve as a guide for regional directors and others in assisting Farm Security borrowers in purchasing farm equipment.

September 8, approximately 600 beet growers and representatives of the sugar processors from Nebraska, Wyoming, and Colorado visited the experiment station plots at Fort Collins, Colo. Considerable interest was shown in the mechanized beet plots demonstrated by E. M. Mervine. Ten acres of beets were grown without "stoop" labor.

S. W. McBirney gave an informal talk on the progress of the sugar beet machinery project at a meeting of the Central California Beet Growers Association at Stockton, Calif. September 6. Moving pictures were shown of the sugar beet harvesters being tested this fall.

E. M. Dieffenbach, headquarters at Logan, Utah, made a trip into southern Idaho during the period from August 29 to September 6 to study the weed eradication work now being conducted in Boise Valley and in the vicinity of Twin Falls.

R. M. Merrill spent several days in Mississippi conferring with C. A. Bennett at the Cotton Ginning Laboratory, Mr. Caperton, Agricultural Engineer at the Delta Experiment Station, and others in the vicinity regarding cotton machinery and tillage methods. He also visited T. N. Jones, Agricultural Engineer at the Mississippi Agricultural Experiment Station at State College, Miss.

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RECENT APPOINTMENTS (Indefinite or Probationary)

Morris J. Blish	Principal Chemist (Albany, Calif.)	Western Reg.	Res.	Lab.
Michael J. Copley	" " (Wyndmoor, Pa.)	Eastern	"	"
Lee T. Smith	" " "	"	"	"
Robert D. Coghill	" " (Peoria, Ill.)	Northern	"	"
Edward F. Snyder	Associate " " "	"	"	"
Robert J. Cheatham	Prin. Cotton Technologist			
	(New Orleans)	Southern	"	"
John J. Brown	Cotton Technologist (New Orleans)	"	"	"
Arthur M. DuPre'	Assoc. Agri. Economist (New Orleans)	"	"	"
Gertrude Y. Gottschall	Associate Chemist	Food Research Div.		
Vincent J. 'O'Neil	Sr. Laborer (Geneva, N.Y.)	"	"	"
Dorothy B. Mulcare	Under Scien. Helper (Los Angeles, Calif.)	"	"	"

Evelyn L. Blanchard	Agent (Davis, Calif.)(wae)	Food Research Div.
Mrs. Almeda P. Brown	Collaborator (Logan, Utah)	" " "
Mrs. Faye Y. Moser	Agent (Logan, Utah)	" " "
Marie Jones	Jr. Steno. (Auburn, Ala.)(wae)	Mech. Equipment
Dan H. Swenson	Collaborator (Logan, Utah)	" "
John Edwin Murray	Agent (Lincoln, Nebr.)(wae)	Rural Electrification
Chas.D. Kellenberger, Jr.	Jr. Mech. Eng. (Stoneville, Miss.)	Cotton Ginning Inves.
Jesse E. Harmond	Asst. Mech. Engr. (Stoneville,)	" " "
Thomas T. Cantin	Jr. Laborer (Stoneville, Miss.)	" " "
Harlan W. Hackbarth	Collaborator (Waco, Texas)(wae)	" " "
Viola Maureen Fossel	Jr. Clerk-Steno.(Urbana, Ill.)	Ind. Farm Products Res.
Henry F. Johnstone	Principal Chemist(" ")	" " " "
Roy Malcolm Alexander	Sr. Operative (Book machine)	Business Admin.
Wayne D. Rasmussen	Assistant Clerk	" "
Dorothy M. Haddenhorst	Jr. Typist (Urbana, Ill.)	Structures
Winifred G. Glover	Agent (Athens, Ga.)	" "
Joe Louis Schmidt	Under Clerk (Ames, Iowa)(wae)	" "
Etlar A. Henningsen	" " "	" "
John S. Duhe	Jr. Engineering Aid (New Orleans, La.)	Plans and Service

Recent Appointments (Temporary)

Amelia Slevats	Junior Clerk-typist	Reg. Res. Labs.(Admin.)
Lou V. Brennan	" " "	" " " "
Melissa F. Hicks	" " "	" " " "
Anne Marie Hearn	" " "	" " " "
Frances Popluder	Asst. Clerk-Stenographer	Business Admin.
Shirley Schwartz	" " "	" "
Rachel I. Merritt	" " "	Ind. Farm Prods. Res.
Charles R. Bardos	Mechanical Engineer	Plans and Service
Willard L. Bundy	Asst. Structural Engr.	" " "
Frederick J. Heldrich	Assoc. Architectural Engr.	" " "
Charles Elbert	Cotton Ginning Specialist (Stoneville)	Cotton Ginning Inves.
Julius F. Byrd	Cotton Ginning Specialist (Stoneville)	" " "
Mrs. Ella J. Winn	Jr. Clerk-Stenog.(" ")(wae)	" " "
Tommie L. Rose	Principal Mechanic(" ")(")	" " "
Mrs. Edith D. Platt	Junior Clerk-Typist	Fertilizer Research

Separations

Stanford W. Briggs	Under Scien. Helper (Urbana, Ill.)(Resigned)	Ind. Farm Prod. Res
James Robert Gregory	Under Scien. Helper (Urbana, Ill.)(Resigned)	" " " "
Mrs. Lois G. Williamson	Asst. Clerk-Steno. (Urbana, Ill.)	" " " "
Max Levine	Agent (Ames, Iowa)	" " " "
Jeanne Emery	Senior Steno. (Trans. to Office of Secretary)	" " " "

Mrs. Marie C. Hair	Asst. Clerk-Steno.	Ind. Farm Prods. Res.
Juliette Mayer	Agent (Madison, Wisc.)	Structures
Robert A. Homan	Agent (Hays, Kansas) (Resigned)	"
Wilson P. Green	Asst. Mech. Engr.	"
	(Arlington, Va.) (Resigned)	"
Merritt G. Wyatt	Jr. Steno. (Cadillac, Mich)	"
Mrs. Mary L. Ryan	Junior Clerk-Typist	"
Martin Altschuler	Sr. Arch. Draftsman (Resigned)	Plans and Service
Raymond T. Farrelly	Asst. Engineer (Resigned)	" " "
Byron T. Bisgood	Assoc. Arch. Engr. (Resigned)	" " "
William N. Olewiler	Assistant Civil Engineer	" " "
Arthur G. Gower	Assoc. Elec. Engineer (Resigned)	" " "
Crawford B. Saunders	Assoc. Mechanical Engineer	" " "
Raymond E. Watson	Assoc. Mechanical Engineer	" " "
Bernard L. Bialkin	Assistant Mechanical Engineer	" " "
Maurice E. Fine	" " "	" " "
Hesper M. Royer	Junior Stenographer	" " "
Alice Wade Sowders	Junior Stenographer	" " "
Herman F. Kuzel	Associate Architect	" " "
Fred H. Bonwit	Chief Engineering Draftsman	" " "
Laurie A. Cook	Assoc. Mechanical Engineer	" " "
Alwin Schmidt	Chief Engineering Draftsman	" " "
Laurence Fisher	Associate Mechanical Engineer	" " "
Paul D. Kalv	Assistant Electrical Engineer	" " "
Frederick C. Blanck	Principal Chemist (Resigned)	Food Research Div.
Lucinda I. Tavenner	Assistant Clerk-Stenographer	Business Admin.
Mrs. E. Gwendolyn Chambers	Asst. Clerk-Steno.	Chem. Eng. Res.
Gaylon C. Williamson	Junior Laborer (Urbana, Ill)	Ind. Farm. Prods. Res.
	(Resigned)	